



FORM PTO-1449  <b>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1645

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
MM ↓	AL1	WO 92/11291 A1	07/09/1992	WIPO			Yes No
	AM1	WO 96/30523 A2	10/03/1996	WIPO			Yes No
	AN1	WO 97/31948 A1	09/04/1997	WIPO			Yes No
	AO1	WO 98/15631 A1	04/16/1998	WIPO			Yes No
	AP1	WO 00/32227 A2	06/08/2000	WIPO			Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	1	Abraham, J.M., et al., "An invertible element of DNA controls phase variation of type 1 fimbriae of <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 82:5724-5727, National Academy Press (1985)
	AS	1	Abraham, S.N., et al., "Glycerol-Induced Unraveling of the Tight Helical Conformation of <i>Escherichia coli</i> Type 1 Fimbriae," <i>J. Bacteriol.</i> 174:5145-5148, American Society for Microbiology (1992)
	AT	1	Adhin, M.R., et al., "Nucleotide Sequence from the ssRNA Bacteriophage JP34 Resolves the Discrepancy between Serological and Biophysical Classification," <i>Virology</i> 170:238-242, Academic Press, Inc. (1989)

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NOV 22 2002

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Page 2 of 78

FORM PTO-1449

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MM	AL2	WO 00/59928 A1	10/12/2000	WIPO			Yes No
	AM2	WO 00/23955 A1	04/27/2000	WIPO			Yes No
	AN2	WO 01/62284 A2	08/30/2001	WIPO			Yes No
	AO2	WO 01/85208 A2	11/15/2001	WIPO			Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	2	Aguzzi, A., "Prion diseases, blood and the immune system: concerns and reality," <i>Haematologica</i> 85:3-10, Il Pensiero Scientifico Editore (January 2000)
	AS	2	Ansel, K.M., et al., "In Vivo-activated CD4 T Cells Upregulate CXC Chemokine Receptor 5 and Reprogram Their Response to Lymphoid Chemokines," <i>J. Exp. Med.</i> 190:1123-1134, The Rockefeller University Press (1999)
	AT	2	Ansel, K.M., et al., "A chemokine-driven positive feedback loop organizes lymphoid follicles," <i>Nature</i> 406:309-314, Nature Publishing Group (July 2000)

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NOV 22 2002

TECH CENTER 1600/2900

Page 3 of 78

FORM PTO-1449

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	3	Antonyssamy, M.A., et al., "Evidence for a Role of IL-17 in Organ Allograft Rejection: IL-17 Promotes the Functional Differentiation of Dendritic Cell Progenitors," J. Immunol. 162:577-584, The American Association of Immunologists (1999)
	AS	3	Arenberg, D.A., et al., "The murine CC chemokine, 6C-kine, inhibits tumor growth and angiogenesis in a human lung cancer SCID mouse model," Cancer Immunol. Immunother. 49:587-592, Springer-Verlag (January 2001)
V	AT	3	Arnon, R., et al., "A mimotope peptide-based vaccine against <i>Schistosoma mansoni</i> : synthesis and characterization," Immunology 101:555-562, Blackwell Science, Ltd. (December 2000)

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NOV 22 2002

TECH CENTER 1600/2900

Page 4 of 78

FORM PTO-1449

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	4	Bachmann, M.F., and Zinkernagel, R.M., "The influence of virus structure on antibody responses and virus serotype formation," <i>Immunol. Today</i> 17:553-558, Elsevier Science, Ltd. (1996)
	AS	4	Bachmann, M.F., and Zinkernagel, R.M., "Neutralizing Antiviral B Cell Responses," <i>Annu. Rev. Immunol.</i> 15:235-270, Annual Reviews, Inc. (1997)
	AT	4	Bachmann, M.F., et al., "TRANCE, a Tumor Necrosis Factor Family Member Critical for CD40 Ligand-independent T Helper Cell Activation," <i>J. Exp. Med.</i> 189:1025-1031, The Rockefeller University Press (1999)

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NOV 22 2002

TECH CENTER 1600/2900

Page 5 of 78

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	5	Banerjee, R.R., and Lazar, M.A., "Dimerization of Resistin and Resistin-like Molecules Is Determined by a Single Cysteine," J. Biol. Chem. 276:25970-25973, The American Society for Biochemistry and Molecular Biology, Inc. (July 2001)
J	AS	5	Bard, F. et al., "Peripherally administered antibodies against amyloid $\beta$ -peptide enter the central nervous system and reduce pathology in a mouse model of Alzheimer disease," Nat. Med. 6:916-919, Nature Publishing Company (August 2000)
↓	AT	5	Bass, S., and Yang, M., "Expressing cloned genes in <i>Escherichia coli</i> ," in Protein Function: A Practical Approach, 2nd ed., Creighton, T.E., ed., IRL Press, Oxford, Great Britain, pp. 29-55 (1997)

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NOV 22 2002

TECH CENTER 1600/2900

Page 6 of 78

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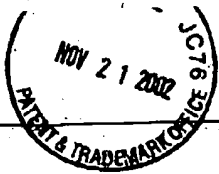
	AR	6	Bernhagen, J., et al., "Purification, Bioactivity, and Secondary Structure Analysis of Mouse and Human Macrophage Migration Inhibitory Factor (MIF)," Biochemistry 33:14144-14155, American Chemical Society (1994)
	AS	6	Biaselle, C.J., and Millar, D.B., "Studies on Triton X-100 detergent micelles," Biophys. Chem. 3:355-361, North-Holland Publishing Company (1975)
	AT	6	Bleul, C.C., et al., "The lymphocyte chemoattractant SDF-1 is a ligand for LESTR/fusin and blocks HIV-1 entry," Nature 382:829-833, Nature Publishing Group (1996)

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NOV 22 2002

TECH CENTER 1600/2900

Page 7 of 78

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MM	AR	2	Blomfield, I.C., et al., "Type 1 Fimbriation and <i>fimE</i> Mutants of <i>Escherichia coli</i> K-12," <i>J. Bacteriol.</i> 173:5298-5307, American Society for Microbiology (1991)
	AS	2	Blomfield, I.C., et al., "Integration host factor stimulates both FimB- and FimE-mediated site-specific DNA inversion that controls phase variation of type 1 fimbriae expression in <i>Escherichia coli</i> ," <i>Mol. Microbiol.</i> 23:705-717, Blackwell Science, Ltd. (1997)
✓	AT	2	Boder, E.T., and Wittrup, K.D., "Yeast Surface Display for Directed Evolution of Protein Expression, Affinity, and Stability," <i>Methods Enzymol.</i> 328:430-444, Academic Press (October 2000)

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NOV 22 2002

Page 8 of 78

TECH CENTER 1600/2900

FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTPAT. DOCKET NO.  
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MM	AR	8	Bonci, A., et al., "Relatedness and Phylogeny Within the Family of Periplasmic Chaperones Involved in the Assembly of Pili or Capsule-Like Structures of Gram-Negative Bacteria," J. Mol. Evol. 44:299-309, Springer-Verlag (1997)
	AS	8	Brandner, S., et al., "A crucial role for B cells in neuroinvasive scrapie," Transfus. Clin. Biol. 6:17-23, Elsevier, Paris (1999)
E	AT	8	Brinton, Jr., C.C., "The structure, function, synthesis and genetic control of bacterial pili and a molecular model for DNA and RNA transport in gram negative bacteria," Trans. N.Y. Acad. Sci. 27:1003-1054, New York Academy of Sciences (1965)

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NOV 22 2002

Page 9 of 78

TECH CENTER 1600/2900

FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
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	AR	2	Brown, K.D., et al., "A family of small inducible proteins secreted by leukocytes are members of a new superfamily that includes leukocyte and fibroblast-derived inflammatory agents, growth factors, and indicators of various activation processes," J. Immunol. 142:679-687, The American Association of Immunologists (1989)
	AS	2	Brown, P.M., et al., "A Single-Step Purification of Biologically Active Recombinant Human Interleukin-5 from a Baculovirus Expression System," Protein Expr. Purif. 6:63-71, Academic Press, Inc. (1995)
	AT	2	Brown, K.L., et al., "Scrapie replication in lymphoid tissues depends on prion protein-expressing follicular dendritic cells," Nat. Med. 11:1308-1312, Nature Publishing Company (1999)

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NOV 22 2002

TECH CENTER 1600/2900

Page 10 of 78

FORM PTO-1449

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MM	AR	10	Bullitt, E., et al., "Development of pilus organelle subassemblies in vitro depends on chaperone uncapping of a beta zipper," Proc. Natl. Acad. Sci. USA 93:12890-12895, National Academy Press (1996)
	AS	10	Bullitt, E., and Makowski, L., "Bacterial Adhesion Pili Are Heterologous Assemblies of Similar Subunits," Biophys. J. 74:623-632, Biophysical Society (1998)
✓	AT	10	Burger, J.A., et al., "Blood-derived nurse-like cells protect chronic lymphocytic leukemia B cells from spontaneous apoptosis through stromal cell-derived factor-1," Blood 96:2655-2663, The American Society of Hematology (October 2000)

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NOV 22 2002

TECH CENTER 1600/2900

Page 11 of 78

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	AR	11	Burghoff, R.L., et al., "Utilization of the Mouse Large Intestine To Select an Escherichia coli F-18 DNA Sequence That Enhances Colonizing Ability and Stimulates Synthesis of Type 1 Fimbriae," <i>Infect. Immun.</i> 61:1293-1300, American Society for Microbiology (1993)
	AS	11	Cannon-Carlson S., et al., "Expression, Purification, and Characterization of Recombinant Human Interleukin-13 from NS-0 Cells," <i>Protein Expr. Purif.</i> 12:239-248, Academic Press (1998)
	AT	11	Chabaud, M., et al., "Enhancing Effect of IL-17 on IL-1-Induced IL-6 and Leukemia Inhibitory Factor Production by Rheumatoid Arthritis Synoviocytes and Its Regulation by Th2 Cytokines," <i>J. Immunol.</i> 161: 409-414, The American Association of Immunologists (1998)

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NOV 22 2002

TECH CENTER 1600/2900

Page 12 of 78

FORM PTO-1449

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	AR	12	Chabaud, M., et al., "Human Interleukin-17. A T Cell-Derived Proinflammatory Cytokine Produced by the Rheumatoid Synovium," Arthritis Rheum. 42:963-970, Wiley-Liss, Inc. (1999)
	AS	12	Chabaud, M., et al., "Contribution of Interleukin 17 to synovium matrix destruction in rheumatoid arthritis," Cytokine 12:1092-1099, Cell Press (July 2000)
	AT	12	Clark, H.F. et al., "Comparative Characterization of a C-Type Virus-Producing Cell Line (VSW) and a Virus-Free Cell Line (VH2) From Vipera russelli," J. Natl. Cancer Inst. 51:645-657, Oxford University Press (1973)

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NOV 22 2002

TECH CENTER 1600/2900

Page 13 of 78

FORM PTO-1449

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	AR	13	Clark-Lewis, I., et al., "Chemical Synthesis, Purification, and Characterization of Two Inflammatory Proteins, Neutrophil Activating Peptide 1 (Interleukin-8) and Neutrophil Activating Peptide 2," <i>Biochemistry</i> 30:3128-3135, American Chemical Society (1991)
	AS	13	Coffman, R.L., et al., "Antibody to Interleukin-5 Inhibits Helminth-Induced Eosinophilia in Mice," <i>Science</i> 245:308-310, American Association for the Advancement of Science (1989)
	AT	13	Cohen, C., and Parry D.A.D., "α-Helical coiled coils-a widespread motif in proteins," <i>Trends Biochem. Sci.</i> 11:245-248, Elsevier Science Publishers B.V. (1986)

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NOV 22 2002

TECH CENTER 1600/2900

Page 14 of 78

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	14	Corti, M., et al., "GM1-ganglioside-Triton X-100 mixed micelles: changes of micellar properties studied by laser-light scattering and enzymatic methods," Chem. Phys. Lipids 28:197-214, Elsevier/North-Holland Scientific Publishers, Ltd. (1981)
	AS	14	Coutelier, J.-P., et al., "IgG2a Restriction of murine antibodies elicited by viral infections," J. Exp. Med. 165:64-69, The Rockefeller University Press (1987)
	AT	14	Crump, M.P., et al., "Solution Structure of Eotaxin, a Chemokine That Selectively Recruits Eosinophils in Allergic Inflammation," J. Biol. Chem. 273:22471-22479, The American Society for Biochemistry and Molecular Biology, Inc. (1998)

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NOV 22 2002

TECH CENTER 1600/2900

Page 15 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
To be assigned

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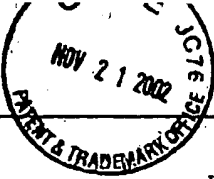
MM	AR	15	Davis, N.L., et al., "In Vitro Synthesis of Infectious Venezuelan Equine Encephalitis Virus RNA from a cDNA Clone: Analysis of a Viable Deletion Mutant," Virology 171:189-204, Academic Press (1989)
	AS	15	Daugherty, P.S., et al., "Development of an optimized expression system for the screening of antibody libraries displayed on the Escherichia coli surface," Protein Eng. 12:613-621, Oxford University Press (1999)
	AT	15	Dealwis, C., et al., "Crystal structure of chemically synthesized [N13A] stromal cell-derived factor 1 $\alpha$ , a potent ligand for the HIV-1 "fusin" coreceptor," Proc. Natl. Acad. Sci. USA 95:6941-6946, National Academy Science (June 2001)

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NOV 22 2002

TECH CENTER 1600/2900

Page 16 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
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MM	AR	16	Dodson, K.W., et al., "Outer-membrane PapC molecular usher discriminately recognizes periplasmic chaperone-pilus subunit complexes," <i>Proc. Natl. Acad. Sci. USA</i> 90:3670-3674, National Academy Press (1993)
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NOV 22 2002

TECH CENTER 1600/2900

Page 17 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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	AR	17	Eisenmesser, E.Z., et al., "Expression, Purification, Refolding, and Characterization of Recombinant Human Interleukin-13: Utilization of Intracellular Processing," <i>Protein Expr. Purif.</i> 20:186-195, Academic Press (November 2000)
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NOV 22 2002

TECH CENTER 1600/2900

Page 18 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
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MM ↓	AR	18	Elisseeva, E.L., et al., "NMR Studies of Active N-terminal Peptides of Stromal Cell-derived Factor-1," <i>J. Biol. Chem.</i> 275:26799-26805, The American Society for Biochemistry and Molecular Biology, Inc. (September 2000)
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	AT	18	Ettinger, R., et al., "A Critical Role for Lymphotoxin- $\beta$ Receptor in the Development of Diabetes in Nonobese Diabetic Mice," <i>J. Exp. Med.</i> 193:1333-1339, The Rockefeller University Press (June 2001)

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NOV 22 2002

TECH CENTER 1600/2900

Page 19 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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	AT	19	Folkman, J., "Angiogenesis in cancer, vascular, rheumatoid and other disease," Nat. Med. 1:27-31, Nature Publishing Company (1995)

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NOV 22 2002

TECH CENTER 1600/2000

Page 20 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
To be assigned

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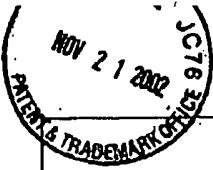
MM	AR	20	Forssmann, U., et al., "Eotaxin-2, a Novel CC Chemokine that Is Selective for the Chemokine Receptor CCR3, and Acts Like Eotaxin on Human Eosinophil and Basophil Leukocytes," J. Exp. Med. 185:2171-2176; The Rockefeller University Press (1997)
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NOV 22 2002

TECH CENTER 1600/2900

Page 21 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	21	Fujiwara, K., et al., "Novel preparation method of immunogen for hydrophobic haptens, enzyme immunoassay for daunomycin and adriamycin," <i>J. Immunol. Methods</i> 45:195-203, Elsevier/North-Holland Biomedical Press (1981)
↓	AS	21	Gally, D.L., et al., "Environmental Regulation of the fim Switch Controlling Type 1 Fimbrial Phase Variation in <i>Escherichia coli</i> K-12: Effects of Temperature and Media," <i>J. Bacteriol.</i> 175:6186-6193, American Society for Microbiology (1993)
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NOV 22 2002

TECH CENTER 1600/2900

Page 22 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	22	Gherardi, E. et al., "A single-step procedure for cloning and selection of antibody-secreting hybridomas," <i>J. Immunol. Methods</i> 126: 61-68, Elsevier (1990)
	AS	22	Golmohammadi, R., et al., "The crystal structure of bacteriophage Q $\beta$ at 3.5Å resolution," <i>Structure</i> 4:543-554, Current Biology, Ltd. (1996)
	AT	22	Gunn, M.D., et al., "A B-cell-homing chemokine made in lymphoid follicles activates Burkitt's lymphoma receptor-1," <i>Nature</i> 391:799-803, Nature Publishing Group (1998)

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NOV 22 2002

TECH CENTER 1600/2000

Page 23 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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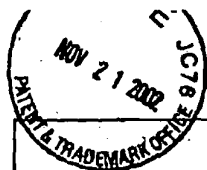
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NOV 22 2002

TECH CENTER 1600/2000

Page 24 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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MM	AR	24	Harrison, J.L., et al., "Screening of Phage Antibody Libraries," <i>Methods Enzymol.</i> 267:83-109, Macmillan Publishers, Ltd. (1996)
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NOV 22 2002

TECH CENTER 1600/2900

Page 25 of 78

FORM PTO-1449  <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP To be assigned

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MM	AR	25	Heveker, N., et al., Dissociation of the signalling and antiviral properties of SDF-1-derived small peptides," Curr. Biol. 8:369-376, Current Biology, Ltd. (1998)
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NOV 22 2002

TECH CENTER 1600/2900

Page 26 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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	AT	26	Hultgren, S.J., et al., "The PapG adhesin of uropathogenic Escherichia coli contains separate regions for receptor binding and for the incorporation into the pilus," Proc. Nat. Acad. Sci. USA 86:4357-4361, National Academy Press (1989)

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NOV 22 2002

TECH CENTER 1600/2900

Page 27 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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MM	AR	27	Hultgren, S.J., et al., "PapD and superfamily of periplasmic immunoglobulin-like pilus chaperones," Adv. Prot. Chem. 44:99-123, Academic Press, Inc. (1993)
	AS	27	Hultgren, S.J., et al., "Pilus and Nonpilus Bacterial Adhesins: Assembly and Function in Cell Recognition," Cell 73:887-901, Cell Press (1993)
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NOV 22 2002

TECH CENTER 1600/2900

Page 28 of 78

FORM PTO-1449  <u>FIRST SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP To be assigned

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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NOV 22 2002

TECH CENTER 1600/2900

Page 29 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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NOV 2 2 2002

TECH CENTER 1600/2900

Page 30 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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	AR	30	Jacob-Dubuisson, F., et al., "Initiation of assembly and association of the structural elements of a bacterial pilus depend on two specialized tip proteins," EMBO J. 12:837-847, Oxford University Press (1993)
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NOV 22 2002

TECH CENTER 1600/2900

Page 31 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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MM ↓	AR	31	Jones, C.H., et al., "FimC is a periplasmic PapD-like chaperone that directs assembly of type 1 pili in bacteria," <i>Proc. Natl. Acad. Sci. USA</i> 90:8397-8401, National Academy Press (1993)
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NOV 22 2002

TECH CENTER 1600/2900

Page 32 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
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NOV 22 2002

TECH CENTER 1600/2900

Page 33 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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NOV 22 2002

TECH CENTER 1600/2900

Page 34 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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	AR	34	Klemm, P., and Christiansen, G., "Three fim genes required for the regulation of length and mediation of adhesion of Escherichia coli type 1 fimbriae," Mol. Gen. Genet. 208:439-445, Springer-Verlag (1987)
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NOV 22 2002

TECH CENTER 1600/2900

Page 35 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
To be assigned

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MM	AR	35	Klemm, P., "FimC, a chaperone-like periplasmic protein of <i>Escherichia coli</i> involved in biogenesis of type 1 fimbriae," <i>Res. Microbiol.</i> 143:831-838, Institut Pasteur/Elsevier (1992)
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NOV 22 2002

TECH CENTER 1600/2900

Page 36 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
To be assigned

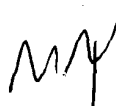
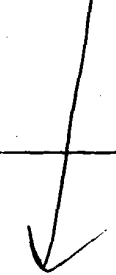

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	36	Kodama, S., et al., "Carbohydrate Structures of Human Interleukin 5 Expressed in Chinese Hamster Ovary Cells," J. Biochem. (Tokyo) 110:693-701, Japanese Biochemical Society (1991)
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NOV 22 2002

TECH CENTER 1600/2900

Page 37 of 78

FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
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	AP						Yes No

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NOV 21 2002  
TECH CENTER 1600/2900

Page 38 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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NOV 22 2002

TECH CENTER 1600/2900

Page 39 of 78



FORM PTO-1449

**FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**

 ATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJE

 APPLICATION NO.  
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 APPLICANT  
RENNER et al.

 FILING DATE  
January 18, 2002

 GROUP  
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NOV 22 2002

TECH CENTER 1600/2900

Page 40 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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NOV 22 2002

TECH CENTER 1600/2900

Page 41 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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	AP						Yes No

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mm ↓	AR	41	Liljeström, P., and Garoff, H., "A new generation of animal cell expression vectors based on the semliki forest virus replicon," <i>Bio/technology</i> 9:1356-1361, Nature Publishing Company (1991)
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	AT	41	Lim, F., et al., "The RNA-binding Site of Bacteriophage Q $\beta$ Coat Protein," <i>J. Biol. Chem.</i> 271:31839-31845, The American Society for Biochemistry and Molecular Biology, Inc. (1996)

EXAMINER

moller

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2-19-04

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NOV 22 2002

TECH CENTER 1600/2000

Page 42 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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	AM						Yes No
	AN						Yes No
	AO						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓	AR	42	Lin, E.Y., et al., "Colony-stimulating Factor 1 Promotes Progression of Mammary Tumors to Malignancy," J. Exp. Med. 193:727-739, The Rockefeller University Press (March 2001)
	AS	42	Lindberg, F., et al., "PapD, a Periplasmic Transport Protein in P-Pilus Biogenesis," J. Bacteriol. 171:6052-6058, American Society for Microbiology (1989)
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M. Miller

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NOV 22 2002

TECH CENTER 1600/2900

Page 43 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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MM	AR	43	López, O., et al., "Direct formation of mixed micelles in the solubilization of phospholipid liposomes by Triton X-100," <i>FEBS Lett.</i> 426:314-318, Elsevier (1998)
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NOV 22 2002

TECH CENTER 1600/2900

Page 44 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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	AO						Yes No
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NOV 22 2002

TECH CENTER 1600/2000

Page 45 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
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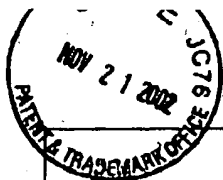
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	AT	45	Matsui, S.M., et al., "The Isolation and Characterization of a Norwalk Virus-Specific cDNA," J. Clin. Invest. 87:1456-1461, The American Society for Clinical Investigation, Inc. (1991)

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NOV 22 2002

TECH CENTER 1600/2900

Page 46 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
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MM	AR	46	Matsumoto, M., et al., "Role of Lymphotoxin and the Type 1 TNF Receptor in the Formation of Germinal Centers," <i>Science</i> 271:1289-1291, American Association for the Advancement of Science (1996)
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NOV 22 2002

Page 47 of 78

TECH CENTER 1600/2900

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
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MM	AR	47	Mayer, K.L., and Stone, M.J., "NMR Solution Structure and Receptor Peptide Binding of the CC Chemokine Eotaxin-2," <i>Biochemistry</i> 39:8382-8395, American Chemical Society (July 2000)
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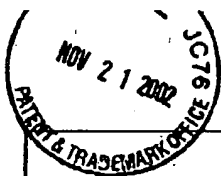
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NOV 22 2002

TECH CENTER 1600/2900

Page 48 of 78

FORM PTO-1449

**FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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	AM						Yes No
	AN						Yes No
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MM ↓	AR	48	Mikulowska, A., et al., "Macrophage Migration Inhibitory Factor Is Involved in the Pathogenesis of Collagen Type II-Induced Arthritis in Mice," J. Immunol. 158:5514-5517, The American Association of Immunologists (1997)
	AS	48	Millauer, B., et al., "Glioblastoma growth inhibited in vivo by a dominant-negative Flk-1 mutant," Nature 367:576-579, Nature Publishing Group (1994)
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NOV 22 2002

TECH CENTER 1600/2900

Page 49 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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	AN						Yes No
	AO						Yes No
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MM	AR	49	Mitchell, D.L., et al., "Purification and characterization of recombinant murine interleukin-5 glycoprotein, from a Baculovirus expression system," Biochem. Soc. Trans. 21:332S, Portland Press (1993)
	AS	49	Montrasio, F. et al., "Impaired Prion Replication in Spleens of Mice Lacking Functional Follicular Dendritic Cells," Science 288:1257-1259, American Association for the Advancement of Science (May 2000)
✓	AT	49	Morein, B., et al., "Iscom, a novel structure for antigenic presentation of membrane proteins from enveloped viruses," Nature 308:457-460, Nature Publishing Group (1984)

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NOV 22 2002

TECH CENTER 1600/2900

Page 50 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
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	AN						Yes No
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	AP						Yes No

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MM	AR	50	Moriya, C., et al., "Large quantity production with extreme convenience of human SDF-1 $\alpha$ and SDF-1 $\beta$ by a Sendai virus vector," <i>FEBS Lett.</i> 425:105-111, Amsterdam Elsevier Science B.V. (1998)
	AS	50	Müller, A., et al., "Involvement of chemokine receptors in breast cancer metastasis," <i>Nature</i> 410:50-56, Nature Publishing Group (March 2001)
	AT	50	Murphy, Jr., K.P., et al., "Expression of Human Interleukin-17 in <i>Pichia pastoris</i> : Purification and Characterization," <i>Protein Expr. Purif.</i> 12:208-214, Academic Press (1998)

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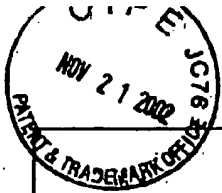
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NOV 22 2002

TECH CENTER 1600/2900

Page 51 of 78



FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

 ATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJE

 APPLICATION NO.  
10/050,902

 APPLICANT  
RENNER et al.

 FILING DATE  
January 18, 2002

 GROUP  
To be assigned

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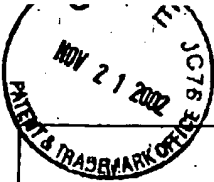
	AR	51	Nagira, M., et al., "Molecular Cloning of a Novel Human CC Chemokine Secondary Lymphoid-Tissue Chemokine That Is a Potent Chemoattractant for Lymphocytes and Mapped to Chromosome 9p13," J. Biol. Chem. 272:19518-19524, The American Society for Biochemistry and Molecular Biology, Inc. (1997)
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NOV 22 2002

TECH CENTER 1600/2800

Page 52 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
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MM	AR	52	Neiryneck, S., et al., "A universal influenza A vaccine based on the extracellular domain of the M2 protein," Nat. Med. 5:1157-1163, Nature Publishing Company (1999)
	AS	52	Newman, J.V., et al., "Stimulation of Escherichia coli F-18Col Type-1 fimbriae synthesis by leuX," FEMS Microbiol. Lett. 122:281-287, Elsevier (1994)
✓	AT	52	Ni, C.-Z., et al., "Crystal structure of the coat protein from the GA bacteriophage: Model of the unassembled dimer," Protein Sci. 5:2485-2493, Cambridge University Press (1996)

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NOV 22 2002

TECH CENTER 1600/500

Page 53 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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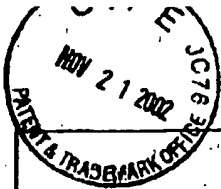
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NOV 22 2002

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Page 54 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
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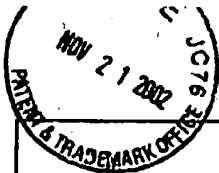
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NOV 22 2002

TECH CENTER 1600/2900

Page 55 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
To be assigned

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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MM	AR	55	O'Shea, E.K., et al., "Evidence That the Leucine Zipper Is a Coiled Coil," <i>Science</i> 243:538-542, American Association for the Advancement of Science (1989)
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NOV 22 2002

Page 56 of 78

TECH CENTER 1600/2900

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
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MM ↓	AR	56	Pierrot, C., et al., "Expression of Rat Interleukin-5 and Generation of Neutralizing Antiserum: a Comparative Study of Rat IL-5 Produced in <i>Escherichia coli</i> and Insect Cells," <i>Biochem. Biophys. Res. Commun.</i> 253:756-760, Academic Press (1998)
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NOV 22 2002

Page 57 of 78

TECH CENTER 1600/2900

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
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MM	AR	57	Presta, L.G., et al., "Humanization of an Anti-Vascular Endothelial Growth Factor Monoclonal Antibody for the Therapy of Solid Tumors and Other Disorders," <i>Cancer Res.</i> 57:4593-4599, The American Association for Cancer Research (1997)				
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NOV 22 2002

TECH CENTER 1600/2900

Page 58 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

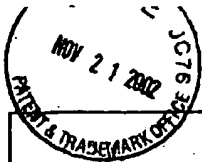
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NOV 22 2002

TECH CENTER 1600/2900

Page 59 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
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NOV 22 2002

TECH CENTER 1600/2000

Page 60 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
To be assigned

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MM	AR	60	Romagnani, S., "The Th1/Th2 paradigm," Immunol. Today 18:263-266, Elsevier Science, Ltd. (1997)
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NOV 22 2002

TECH CENTER 1600/2900

Page 61 of 78

FORM PTO-1449		ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE		APPLICATION NO. 10/050,902			
FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT		APPLICANT RENNER et al.		FILING DATE January 18, 2002			
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	AM						Yes No
	AN						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MM ↓ ✓	AR	61	Russell, P.W., and Orndorff, P.E., "Lesions in Two <i>Escherichia coli</i> Type 1 Pilus Genes Alter Pilus Number and Length without Affecting Receptor Binding," <i>J. Bacteriol.</i> 174:5923-5935, American Society for Microbiology (1992)				
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NOV 22 2002

TECH CENTER 1600/2900

Page 62 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
To be assigned

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	AN						Yes No
	AO						Yes No
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MM ↓ ✓	AR	62	Schenk, D., et al., "Immunization with amyloid- $\beta$ attenuates Alzheimer-disease-like pathology in the PDAPP mouse," <i>Nature</i> 400:173-177, Nature Publishing Group (1999)
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*M. Miller*

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2-19-04

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NOV 22 2002

TECH CENTER 1600/2900

Page 63 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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MM	AR	63	Slonim, L.N., et al., "Interactive surface in the PapD chaperone cleft is conserved in pilus chaperone superfamily and essential in subunit recognition and assembly," <i>EMBO J.</i> 11:4747-4756, Oxford University Press (1992)
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NOV 22 2002

TECH CENTER 1600/2900

Page 64 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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NOV 22 2002

TECH CENTER 1600/2000

Page 65 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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NOV 22 2002

Page 66 of 78

FORM PTO-1449

TECH CENTER 1600/2900

PATENT DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTAPPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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NOV 22 2002

TECH CENTER 1600/2900

Page 67 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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NOV 22 2002

TECH CENTER 1600/2900

Page 68 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	68	Teunissen, M.B.M., et al., "Interleukin-17 and Interferon- $\gamma$ Synergize in the Enhancement of Proinflammatory Cytokine Production by Human Keratinocytes," J. Invest. Dermatol. 111:645-649, The Society for Investigative Dermatology, Inc. (1998)				
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NOV 22 2002

TECH CENTER 1000/2000

Page 69 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
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	AM						Yes No
	AN						Yes No
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MM	AR	69	Topchieva, I., and Karezin, K., "Self-Assembled Supramolecular Micellar Structures Based on Non-ionic Surfactants and Cyclodextrins," J. Colloid Interface Sci. 213:29-35, Academic Press (1999)
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NOV 22 2002

TECH CENTER 1600/2900

Page 70 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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NOV 22 2002

TECH CENTER 1600/2900

Page 71 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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NOV 22 2002

TECH CENTER 1600/2900

Page 72 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
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January 18, 2002GROUP  
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Mary Hughes

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2-19-04

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NOV 22 2002

Page 73 of 78

TECH CENTER 1600/2900

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

PRTY. DOCKET NO.

1700.0190004/JAG/BJD/SJE

APPLICATION NO.

10/050,902

APPLICANT

RENNER et al.

FILING DATE

January 18, 2002

GROUP

To be assigned

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	AL						Yes No
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NOV 22 2002

TECH CENTER 1600/2900

Page 74 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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2-19-04

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NOV 22 2002

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FORM PTO-1449  FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP To be assigned

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	AM						Yes No
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NOV 22 2002

TECH CENTER 1600/2900

Page 76 of 78

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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	AL						Yes No
	AM						Yes No
	AN						Yes No
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	AR	76	Zimmermann, N., et al., "Murine Eotaxin-2: A Constitutive Eosinophil Chemokine Induced by Allergen Challenge and IL-4 Overexpression," <i>J. Immunol.</i> 165:5839-5846, The American Association of Immunologists (November 2000).
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FORM PTO-1449  <u>FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	77	Copy of co-pending U.S. Application No. 09/449,631, inventors Renner et al., filed November 30, 1999.
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	AT	77	Fehr, T., et al., "T cell-independent type I antibody response against B cell epitopes expressed repetitively on recombinant virus particles," Proc. Natl. Acad. Sci. USA 95:9477-9481, National Academy Press (1998)

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NOV 22 2002

Page 78 of 78

TECH CENTER 1600/2900

FORM PTO-1449

FIRST SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.

1700.0190004/JAG/BJD/SJE

APPLICATION NO.

10/050,902

APPLICANT

RENNER et al.

FILING DATE

January 18, 2002

GROUP

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FORM PTO-1449

**SIXTH SUPPLEMENTAL  
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1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648**U.S. PATENT DOCUMENTS**

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	AN						Yes No
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	AP						Yes No

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MM	AT	95	NCBI Entrez, GenBank Report, Accession No. P03153, from Seeger, C., et al. (January 1990)

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<u>SIXTH SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

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FORM PTO-1449  SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

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	AP						Yes No

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FORM PTO-1449

ATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTAPPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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MM	AR	98	NCBI Entrez, GenBank Report, Accession No. X00981, from Klemm, P. (September 1993)
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FORM PTO-1449

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10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	99	NCBI Entrez, GenBank Report, Accession No. X02514, from Yanisch-Perron, C., et al. (May 1994)
MM	AS	99	NCBI Entrez, GenBank Report, Accession No. X85256, from Lai, M.E., et al. (April 1995)
MM	AT	99	NCBI Entrez, GenBank Report, Accession No. X85259, from Lai, M.E., et al., (April 1995)

EXAMINER

Moley

DATE CONSIDERED

2-25-04

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



FORM P-1449 <b>SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

## U.S. PATENT DOCUMENTS

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	100	NCBI Entrez, GenBank Report, Accession No. X85260, from Lai, M.E., et al. (April 1995)
MM	AS	100	NCBI Entrez, GenBank Report, Accession No. X85272, from Lai, M.E., et al. (April 1995)
MM	AT	100	NCBI Entrez, GenBank Report, Accession No. X85275, from Lai, M.E., et al. (April 1995)

EXAMINER

Moxley

DATE CONSIDERED 2-25-04

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FORM PTO-1449  <u>SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MM	AR	101	NCBI Entrez, GenBank Report, Accession No. X85284, from Lai, M.E., et al. (April 1995)				
MM	AS	101	NCBI Entrez, GenBank Report, Accession No. X85285, from Lai, M.E., et al. (April 1995)				
MM	AT	101	NCBI Entrez, GenBank Report, Accession No. X85286, from Lai, M.E., et al. (April 1995)				

EXAMINER <i>Motley</i>	DATE CONSIDERED <i>2-25-04</i>
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FORM PTO-1449  <u>SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>				ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE		APPLICATION NO. 10/050,902	
				APPLICANT RENNER et al.			
				FILING DATE January 18, 2002		GROUP 1648	
U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MM	AR	102	NCBI Entrez, GenBank Report, Accession No. X85287, from Lai, M.E., et al. (April 1995)				
MM	AS	102	NCBI Entrez, GenBank Report, Accession No. X85291, from Lai, M.E., et al. (April 1995)				
MM	AT	102	NCBI Entrez, GenBank Report, Accession No. X85293, from Lai, M.E., et al. (April 1995)				
EXAMINER Moxley					DATE CONSIDERED 7-25-04		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.							



FORM PTO-1449

ATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

## U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	103	NCBI Entrez, GenBank Report, Accession No. X85295, from Lai, M.E., et al. (April 1995)				
MM	AS	103	NCBI Entrez, GenBank Report, Accession No. X85296, from Lai, M.E., et al. (April 1995)				
MM	AT	103	NCBI Entrez, GenBank Report, Accession No. X85297, from Lai, M.E., et al. (April 1995)				

EXAMINER

moley

DATE CONSIDERED

7-25-04

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	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85298, from Lai, M.E., et al. (April 1995)
	AS	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85299, from Lai, M.E., et al. (April 1995)
	AT	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85301, from Lai, M.E., et al. (April 1995)

EXAMINER	DATE CONSIDERED <u>2-25-04</u>
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FORM PTO-1449  <u>SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/EJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

## U.S. PATENT DOCUMENTS

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	AA						
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	105	NCBI Entrez, GenBank Report, Accession No. X85302, from Lai, M.E., et al. (April 1995)
MM	AS	105	NCBI Entrez, GenBank Report, Accession No. X85303, from Lai, M.E., et al. (April 1995)
MM	AT	105	NCBI Entrez, GenBank Report, Accession No. X85305, from Lai, M.E., et al. (April 1995)

EXAMINER

*MM*

DATE CONSIDERED

2-25-04

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FORM PTO-1449

SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648

## U.S. PATENT DOCUMENTS

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	AA						
	AB						
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85307, from Lai, M.E., et al. (April 1995)
	AS	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85311, from Lai, M.E., et al. (April 1995)
	AT	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85314, from Lai, M.E., et al. (April 1995)

EXAMINER

DATE CONSIDERED

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FORM PTO-1449

ATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

## U.S. PATENT DOCUMENTS

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	107	NCBI Entrez, GenBank Report, Accession No. X85315, from Lai, M.E., et al. (April 1995)
MM	AS	107	NCBI Entrez, GenBank Report, Accession No. X85316, from Lai, M.E., et al. (April 1995)
MM	AT	107	NCBI Entrez, GenBank Report, Accession No. X85317, from Lai, M.E., et al. (April 1995)

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	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. X85319, from Lai, M.E., et al. (April 1995)
MM	AS	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. X80925, from Karayiannis, P. (December 1995)
MM	AT	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. AAC50341, from Yao, Z., et al. (January 1996)

EXAMINER

*M. S. Lee*

DATE CONSIDERED

2-25-04

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	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

## U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. X72702, from Preisler-Adams, S., et al. (February 1996)
	AS	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. VCBPR7, from Weber, K., et al. (April 1996)
	AT	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. 1604193A, from Gomez, F., et al. (October 1996)

EXAMINER

DATE CONSIDERED

2-25-04


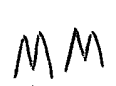

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

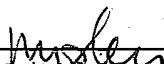


FORM PTO-1449  <u>SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. B56338, from Hoffman, D.R. (May 1997)
	AS	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. U95551, from Rao, B.S., et al. (June 1997)
	AT	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. S14764, from Vandermeers, A., et al. (October 1997)

EXAMINER 	DATE CONSIDERED 7-25-04
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FORM PTO-1449

ATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

## U.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. P03611, from Weber, K., et al. (November 1997)				
MM	AS	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. AAC14699, from Beekwilder, M.J., et al. (April 1998)				
MM	AT	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. AAC14704, from Beekwilder, M.J., et al. (April 1998)				

EXAMINER

*M. M. M.*

DATE CONSIDERED

2-25-04

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	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

U.S. PATENT DOCUMENTS							
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
MM	AR	112	NCBI Entrez, GenBank Report, Accession No. AF043593, from Gunther, S., et al. (May 1998)				
MM	AS	112	NCBI Entrez, GenBank Report, Accession No. 1POC, from Scott, D.L., et al. (September 1998)				
MM	AT	112	NCBI Entrez, GenBank Report, Accession No. CAA30374, from Inokuchi, Y., et al. (February 1999)				

EXAMINER <i>Moley</i>	DATE CONSIDERED 2-25-04
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FORM PTO-1449

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1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	113	NCBI Entrez, GenBank Report, Accession No. X02496, from Bichko, V., et al. (April 1999)
MM	AS	113	NCBI Entrez, GenBank Report, Accession No. MFIV62, from Cox, N.J., et al. (July 1999)
MM	AT	113	NCBI Entrez, GenBank Report, Accession No. VCBPFR, from Wittmann-Liebold, B., et al. (July 1999)

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*M. Lee*

DATE CONSIDERED

2-25-04

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FORM PTO-1449

SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	114	NCBI Entrez, GenBank Report, Accession No. A59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)				
MM	AS	114	NCBI Entrez, GenBank Report, Accession No. B59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)				
MM	AT	114	NCBI Entrez, GenBank Report, Accession No. AF051814, from Boyd, E.F., and Hartl, D.L. (September 1999)				

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FORM PTO-1449

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1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	115	NCBI Entrez, GenBank Report, Accession No. AF051815, from Boyd, E.F., and Hartl, D.L. (September 1999)				
MM	AS	115	NCBI Entrez, GenBank Report, Accession No. AF110999, from Chang, S.F., et al. (October 1999)				
MM	AT	115	NCBI Entrez, GenBank Report, Accession No. AB033559, from Okamoto, H., et al. (October 1999)				

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2-25-04

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FORM PTO-1449

SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648**U.S. PATENT DOCUMENTS**

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

MM	AR	116	NCBI Entrez, GenBank Report, Accession No. AB010289, from Koseki, T., et al. (December 1999)				
MM	AS	116	NCBI Entrez, GenBank Report, Accession No. AJ132364, from Graupner, S., et al. (April 2000)				
MM	AT	116	NCBI Entrez, GenBank Report, Accession No. AF237482, from Johnson, J.R., et al. (May 2000)				

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*Mosley*

DATE CONSIDERED

*2-25-04*

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FORM PTO  <u>SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER <i>et al.</i>	
	FILING DATE January 18, 2002	GROUP 1648

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. M32138, from Tong, S.P., <i>et al.</i> (July 2000)
MM	AS	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. AF229646, from Skerker, J.M., and Shapiro, L. (August 2000)
MM	AT	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. M95589, from Shi, H., <i>et al.</i> (January 2001)

EXAMINER <i>Mosley</i>	DATE CONSIDERED <i>2-25-04</i>
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FORM PTO-

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INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648**U.S. PATENT DOCUMENTS**

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

MM	AR	118	NCBI Entrez, GenBank Report, Accession No. VCBPM2, from Min Jou, W., et al. (January 2001)				
MM	AS	118	NCBI Entrez, GenBank Report, Accession No. AF323080, from Steppan, C.M., et al. (January 2001)				
MM	AT	118	NCBI Entrez, GenBank Report, Accession No. AF323081, from Steppan, C.M., et al. (January 2001)				

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FORM PTO-1449

SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648

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	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	119	NCBI Entrez, GenBank Report, Accession No. U14003, from Plunket, G., III, et al. (January 2001)				
MM	AS	119	NCBI Entrez, GenBank Report, Accession No. AF121239, from Hannoun, C., et al. (February 2001)				
MM	AT	119	NCBI Entrez, GenBank Report, Accession No. AF121240, from Hannoun, C., et al. (February 2001)				

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FORM PTO-1449

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INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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	AN						Yes No
	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

MM	AR	120	NCBI Entrez, GenBank Report, Accession No. AF121242, from Hannoun, C., et al. (February 2001)
MM	AS	120	NCBI Entrez, GenBank Report, Accession No. X59795, from Lai, M.E., et al. (March 2001)
MM	AT	120	NCBI Entrez, GenBank Report, Accession No. X65257, from Lai, M.E., et al. (March 2001)

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FORM PTO-1449  <u>SIXTH SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

## U.S. PATENT DOCUMENTS

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	AL						Yes No
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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	121	NCBI Entrez, GenBank Report, Accession No. X65258, from Lai, M.E., et al. (March 2001)
MM	AS	121	NCBI Entrez, GenBank Report, Accession No. AF151735, from Gerner, P., et al. (April 2001)
MM	AT	121	NCBI Entrez, GenBank Report, Accession No. AJ000636, from Gousset, N., et al. (November 2001)

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	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

## U.S. PATENT DOCUMENTS

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	122	NCBI Entrez, GenBank Report, Accession No. AAB59424, from Kenten, J.H., et al. (February 2002)
MM	AS	122	NCBI Entrez, GenBank Report, Accession No. AAC06250, from Beekwilder, M.J., et al. (March 2002)
MM	AT	122	NCBI Entrez, GenBank Report, Accession No. L09137, from Yanisch-Perron, C., et al. (May 2002)

EXAMINER <i>Moley</i>	DATE CONSIDERED <i>2-25-04</i>
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FORM PTO-1449  <b>SIXTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</b>	ATTY. DOCKET NO. 1700.0190004/JAG/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	123	NCBI Entrez, GenBank Report, Accession No. 009006, from Hromas, R., et al. (June 2002)
MM	AS	123	NCBI Entrez, GenBank Report, Accession No. P40224, from Nagasawa, T., et al. (June 2002)
MM	AT	123	NCBI Entrez, GenBank Report, Accession No. P34884, from Bernhagen, J., et al. (June 2002)

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DATE CONSIDERED

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FORM PTO-1449

SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648

## U.S. PATENT DOCUMENTS

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	AL						Yes No
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	124	NCBI Entrez, GenBank Report, Accession No. P06821, from Winter, G., et al. (June 2002)
MM	AS	124	NCBI Entrez, GenBank Report, Accession No. P30904, from Sakai, M., et al. (June 2002)
MM	AT	124	NCBI Entrez, GenBank Report, Accession No. NP_040754, from Inokuchi, Y., et al. (June 2003)

EXAMINER

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FORM PTO-1449

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1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTU.S. PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	125	NCBI Entrez, GenBank Report, Accession No. NP_061354, from Ishikawa, S., et al. (September 2003)
MM	AS	125	NCBI Entrez, GenBank Report, Accession No. NP_031804, from Lenda, D.M., et al. (September 2003)
MM	AT	125	NCBI Entrez, GenBank Report, Accession No. NP_006410, from Luther, S.A., et al. (September 2003)

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*2-25-04*

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FORM PTO-1449

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RENNER et al.FILING DATE  
January 18, 2002GROUP  
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	126	NCBI Entrez, GenBank Report, Accession No. NP_000748, from Yao, G.Q., et al. (September 2003)
MM	AS	126	NCBI Entrez, GenBank Report, Accession No. P03069, from Hinnebusch, A.G., et al. (September 2003)
MM	AT	126	NCBI Entrez, GenBank Report, Accession No. O00585, from Hromas, R., et al. (September 2003)

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DATE CONSIDERED

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FORM PTO-1449

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10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

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MM	AR	127	NCBI Entrez, GenBank Report, Accession No. P14174, from Weiser, W.Y., et al. (September 2003)				
MM	AS	127	NCBI Entrez, GenBank Report, Accession No. P48061, from Spotila, L.D., et al. (September 2003)				
MM	AT	127	NCBI Entrez, GenBank Report, Accession No. P80003, from Vandermeers, A., et al. (September 2003)				

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*M. J. Miller*

DATE CONSIDERED

2-25-04

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FORM PTO-1449

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10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	128	Swiss-Prot/TREMBL, TN11_Mouse, Primary Accession No. 035235, entered in Swiss-Prot in October 2001				
MM	AS	128	Swiss-Prot/TREMBL, TN11_Human, Primary Accession No. 014788, entered in Swiss-Prot in October 2001				
MM	AT	128	Copy of co-pending U.S. application 10/622,064, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)				

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FORM PTO-1449

ATTY. DOCKET NO.  
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10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

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MM	AT	128	Copy of co-pending U.S. application 10/622,064, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)				

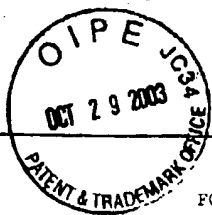
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FORM PTO-1449

Page 35 of 36

ATTY. DOCKET NO.  
1700.0190004/JAG/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	<u>129</u>	Copy of co-pending U.S. application 10/617,876, inventors Bachmann et al., filed July 14, 2003 (NOT PUBLISHED)				
MM	AS	<u>129</u>	Copy of co-pending U.S. application 10/622,087, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)				
MM	AT	<u>129</u>	Copy of co-pending U.S. application 10/622,124, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)				

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FORM PTO-1449

ATTY. DOCKET NO.  
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10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	130	Jegerlehner, A., et al., "A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses," Vaccine 20:3104-3112, Elsevier Science, Ltd. (August 2002)
MM	AS	130	The Biology of Animal Viruses, 2nd ed., Fenner, F., et al., eds., Academic Press, New York, NY, pp. 117-119 (1974)
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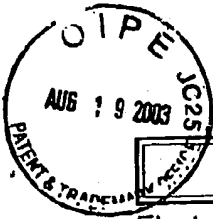
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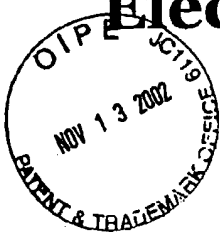


## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

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Title of Invention																																																																																																			
Molecular Antigen Array																																																																																																			
<p>Application Number: 10/050902 Confirmation Number: 7792 First Named Applicant: Wolfgang Renner Attorney Docket Number: 1700.0190004 Search string: ( 4722840 or 5143726 or 5789245 or 5792462 or 5871747 or 5928647 or 6004763 or 6054312 or 6231864 or 5580859 ).pn.</p> <p><b>US Patent Documents</b></p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td><input checked="" type="checkbox"/></td><td>1</td><td>4722840</td><td>1988-02-02</td><td>Valenzuela et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>2</td><td>5143726</td><td>1992-09-01</td><td>Thornton et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>3</td><td>5789245</td><td>1998-08-04</td><td>Dubensky, Jr. et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>4</td><td>5792462</td><td>1998-08-11</td><td>Johnston et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>5</td><td>5871747</td><td>1999-02-16</td><td>Gengoux-Sedlik et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>6</td><td>5928647</td><td>1999-07-27</td><td>Rock</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>7</td><td>6004763</td><td>1999-12-21</td><td>Gengoux et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>8</td><td>6054312</td><td>2000-04-25</td><td>Larocca et al.</td><td></td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>9</td><td>6231864</td><td>2001-05-15</td><td>Birkett</td><td>B1</td><td></td><td></td></tr><tr><td><input checked="" type="checkbox"/></td><td>10</td><td>5580859</td><td>1996-12-03</td><td>Felgner et al.</td><td></td><td></td><td></td></tr></tbody></table> <p><b>Signature</b></p> <table border="1"><thead><tr><th>Examiner Name</th><th>Date</th></tr></thead><tbody><tr><td><i>Moxley</i></td><td>2-19-04</td></tr></tbody></table>								init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	<input checked="" type="checkbox"/>	1	4722840	1988-02-02	Valenzuela et al.				<input checked="" type="checkbox"/>	2	5143726	1992-09-01	Thornton et al.				<input checked="" type="checkbox"/>	3	5789245	1998-08-04	Dubensky, Jr. et al.				<input checked="" type="checkbox"/>	4	5792462	1998-08-11	Johnston et al.				<input checked="" type="checkbox"/>	5	5871747	1999-02-16	Gengoux-Sedlik et al.				<input checked="" type="checkbox"/>	6	5928647	1999-07-27	Rock				<input checked="" type="checkbox"/>	7	6004763	1999-12-21	Gengoux et al.				<input checked="" type="checkbox"/>	8	6054312	2000-04-25	Larocca et al.				<input checked="" type="checkbox"/>	9	6231864	2001-05-15	Birkett	B1			<input checked="" type="checkbox"/>	10	5580859	1996-12-03	Felgner et al.				Examiner Name	Date	<i>Moxley</i>	2-19-04
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# Electronic Information Disclosure Statement

## Molecular Antigen Array

Application:



10/050902

Confirmation: 7792

Applicant(s): Wolfgang Renner

Docket

1700.0190004

Number:

Group Art Unit: 1645


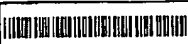


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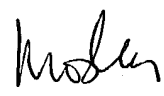
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Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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	P01	5071651	1991-12-10		Sabara et al.		
	P02	5334394	1994-08-02		Kossovsky et al.		
	P03	5374426	1994-12-20		Sabara et al.		
	P04	5580589	1996-12-03		Felgner et al.		
	P05	5698424	1997-12-16		Mastico et al.		
	P06	5739026	1998-04-14		Garoff et al.		
	P07	5770380	1998-06-23		Hamilton et al.		
	P08	5766602	1998-06-16		Xiong et al.		
	P09	5789245	1998-08-04		Dubensky, Jr.		

					et al.
	P10	5792462	1998-08-11		Johnston et al.
	P11	5814482	1998-09-29		Dubensky, Jr. et al.


## Signature

Examiner Name	Date
	2/19/04




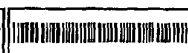
# Electronic Information Disclosure Statement

## Molecular Antigen Array

Application:   
10/050902  
Confirmation: 7792  
Applicant(s): Wolfgang Renner  
Docket Number: 1700.0190004  
Group Art Unit:  
Examiner:  
search string: (6380364 or 20020081295 or 20020064533 ).pn.


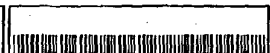


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init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
	U01	6380364	2002-04-30		Mueller et al.		

### Published Applications

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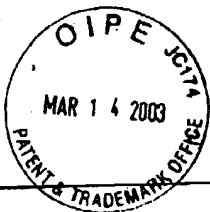
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	U01	20020081295	2002-06-27		Schiller et al.		
	U02	20020064533	2002-05-30		Murray		



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Page 1 of 2

FORM PTO-1449 THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1700.0190004/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT Renner et al.	
	FILING DATE January 18, 2002	GROUP 1645

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
mm	AA1	5,935,821	08/10/1999	Chatterjee et al.			11/21/1996
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
mm	AP2	WO 99/28478	06/10/1999	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
mm	AR	79	Kozlovska, T.M., et al., "RNA Phage Q $\beta$ Coat Protein as a Carrier for Foreign Epitopes," <i>Intervirology</i> 39:9-15, S. Karger AG (1996).
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	AT	79	Nieland, J.D., et al., "Chimeric Papillomavirus Virus-like Particles Induce a Murine Self-Antigen-Specific Protective and Therapeutic Antitumor Immune Response," <i>J. Cell. Biochem.</i> 73:145-152, Wiley-Liss, Inc. (1999).

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1700.0190004/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
Renner et al.FILING DATE  
January 18, 2002GROUP  
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MM	AL3	WO 99/57289	11/11/1999	WIPO			Yes No
MM	AM3	WO 00/50461	08/31/2000	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM	AR	80	Slepishkin, V.A., et al., "Protection of mice against influenza A virus challenge by vaccination with baculovirus-expressed M2 protein," Vaccine 13:1399-1402, Elsevier Science Ltd. (1995).
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1700.0190004/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648

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	AM						Yes No
my	AN3	EP 0 259 149 B1	12/15/1993	Europe			Yes No
	AO3	EP 0 385 610 B1	03/16/1994	Europe			Yes No
D	AP3	WO 94/06472 A1	03/31/1994	WIPO			Yes X No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

my	AR	81	Baba, T.W., et al., "Pathogenicity of Live, Attenuated SIV After Mucosal Infection of Neonatal Macaques," <i>Science</i> 267:1820-1825, American Association for the Advancement of Science (1995)
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	AL4	EP 0 465 081 B1	04/20/1994	Europe			Yes No
	AM4	EP 0 283 505 B1	07/06/1994	Europe			Yes No
	AN4	WO 94/15585 A1	07/21/1994	WIPO			Yes No
	AO4	EP 0 425 082 A1	04/26/1995	Europe			Yes No
	AP4	WO 96/05293 A1	02/22/1996	WIPO			Yes No

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	AR	82	Borisova, G., et al., "Hybrid Hepatitis B Virus Nucleocapsid Bearing an Immunodominant Region from Hepatitis B Virus Surface Antigen," J. Virol. 67:3696-3701, American Society for Microbiology (1993)
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	AN5	WO 99/67293 A1	12/29/1999	WIPO			Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	83	Cramer, R. and Suter, M., "Display of biologically active proteins on the surface of filamentous phages: a cDNA cloning system for selection of functional gene products linked to the genetic information responsible for their production," <i>Gene</i> 137:69-75, Elsevier Science Publishers B.V. (1993)
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January 18, 2002GROUP  
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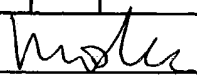
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	AR	84	Donnelly, J.J., et al., "DNA Vaccines," Annu. Rev. Immunol. 15:617-648, Annual Reviews, Inc. (1997)
	AS	84	Ebina, S., et al., "Chemical Modification of Bovine Pancreatic Trypsin Inhibitor for Single Site Coupling of Immunogenic Peptides for NMR Conformational Analysis," J. Biol. Chem. 264:7882-7888, The American Society for Biochemistry and Molecular Biology, Inc. (1989)
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FORM PTO-1449

FIFTH SUPPLEMENTAL  
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RENNER *et al.*FILING DATE  
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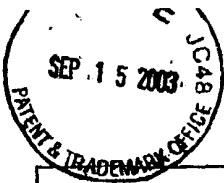
	AR	85	Förster, E., et al., "Natural and recombinant enzymatically active or inactive bee venom phospholipase A <sub>2</sub> has the same potency to release histamine from basophils in patients with Hymenoptera allergy," <i>J. Allergy Clin. Immunol.</i> 95:1229-1235, Mosby-Year Book, Inc. (1995)
	AS	85	Frolov, I., et al., "Alphavirus-based expression vectors: Strategies and applications," <i>Proc. Natl. Acad. Sci. USA</i> 93:11371-11377, National Academy Press (1996)
	AT	85	Gilbert, S.C., et al., "A protein particle vaccine containing multiple malaria epitopes," <i>Nat. Biotechnol.</i> 15:1280-1284, Nature America Publishing (1997)

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275-04

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FORM PTO-1449  <u>FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	86	Greenstone, H.L., et al., "Chimeric paillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," Proc. Natl. Acad. Sci. USA 95:1800-1805, National Academy Press (1998)
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EXAMINER 	DATE CONSIDERED 2-19-04
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FORM PTO-1449

FIFTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.  
1700.0190004/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
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	AL						Yes No
	AM						Yes No
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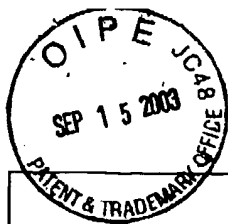
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	AL						Yes No
	AM						Yes No
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MM	AR	88	Iannolo, G., et al., "Modifying Filamentous Phage Capsid: Limits in the Size of the Major Capsid Protein," J. Mol. Biol. 248:835-844, Academic Press, Ltd. (1995)
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January 18, 2002GROUP  
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	AL						Yes No
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MJP	AR	89	Lo, K. K-W., et al., "Surface-modified mutants of cytochrome P450cam: enzymatic properties and electrochemistry," <i>FEBS Lett.</i> 451:342-346, Elsevier Science B.V. on behalf of the Federation of European Biochemical Societies (1999)
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	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

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	AL						Yes No
	AM						Yes No
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	AR	90	Perham, R.N., et al., "Engineering a peptide epitope display system on filamentous bacteriophage," <i>FEMS Microbiol. Rev.</i> 17:25-31, Elsevier Science Publishers on behalf of the Federation of European Microbiological Societies (1995)
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FORM PTO-1449

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1700.0190004/BJD/SJEAPPLICATION NO.  
10/050,902APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1648

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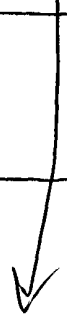
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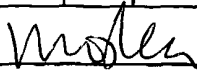
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	AL						Yes No
	AM						Yes No
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	AR	91	Quash, G., et al., "The preparation of latex particles with covalently bound polyamines IgG and measles agglutinins and their use in visual agglutination tests," J. Immunol. Methods 22:165-174, Elsevier/North-Holland Biomedical Press (1978)
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FORM PTO-1449  <u>FIFTH SUPPLEMENTAL</u> <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1700.0190004/BJD/SJE	APPLICATION NO. 10/050,902
	APPLICANT RENNER et al.	
	FILING DATE January 18, 2002	GROUP 1648

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	AL						Yes No
	AM						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

MM ↓ ✓	AR	92	Rudolf, M.P., et al., Molecular Basis for Nonanaphylactogenicity of a Monoclonal Anti-IgE Antibody," <i>J. Immunol.</i> 165:813-819, The American Association of Immunologists (2000)
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10/050,902APPLICANT  
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January 18, 2002GROUP  
1648

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MM	AR	93	Tanimori, H., et al., "Enzyme Immunoassay of Neocarzinostatin Using $\beta$ -Galactosidase as Label," J. Pharm. Dyn. 4:812-819, Pharmaceutical Society of Japan (1981)
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	AM						Yes No
	AN						Yes No
	AO						Yes No
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm	AR	94	Watkins, S.J., et al., "The 'adenobody' approach to viral targeting: specific and enhanced adenoviral gene delivery," <i>Gene Ther.</i> 4:1004-1012, Stockton Press (1997)
	AS	94	Willis, A.E., et al., "Immunological properties of foreign peptides in multiple display on a filamentous bacteriophage," <i>Gene</i> 128:79-83, Elsevier Science Publishers B.V. (1993)
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

mm	AR	95	International Preliminary Examination Report for International Application No. PCT/IB99/01925, European Patent Office, Munich (August 2000) (not for publication)
	AS	95	<del>International Search Report for International Application No. PCT/IB99/01925, European Patent Office, Netherlands (June 2000) (not for publication)</del> could not find this.
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